

ASSIGNMENT

WHEREAS, WE, Ambrose Cheung, Adar Manna and Gongyi Zhang, ASSIGNORS, citizens of the United States, residing at 3 Webster Terrace, Hanover, New Hampshire 03755, 24 Parkhurst Street, Lebanon, New Hampshire 03766 and 3635 Hibiscus Way, Denver, Colorado 80273, are the inventors of the invention in Compositions and Methods for Affecting Virulence Determinants in Bacteria for which we have executed an application for a Patent of the United States

☐ which is executed on ☐ even date herewith or ☐ _____

☒ which is identified by Pennie & Edmonds LLP docket no. 11312-006

☒ which was filed on January 11, 2002, Application No. 10/043,539

☐ I hereby authorize and request my attorney, , of Pennie & Edmonds, LLP, , to insert here in parentheses (Application number _____, filed _____) the filing date and application number of said application when known.

and WHEREAS, Trustees of Dartmouth College, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date January 30, 2003 Ambrose Cheung L.S.

State of New Hampshire } SS.:
County of Grafton }

On Jan. 30, 2003, before me, Patti Beaulieu, Notary Public, personally appeared Ambrose Cheung, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Patti Beaulieu
State of New Hampshire } SS.:
County of Grafton }

PATTI BEAULIEU, Commissioner of Deeds
My Commission Expires August 9, 2005

RECEIVED
FEB 12 2003
TECH CENTER 1600/2900

Date 01/30/03, 2003 Adar Manna L.S.
State of New Hampshire }
County of Grafton } SS.:

On Jan. 30, 2003, before me, Patti Beaulieu, Notary Public,
personally appeared Adar Manna, personally known to me on the basis of satisfactory evidence to be
the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same
in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon
behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Patti Beaulieu

PATTI BEAULIEU, Commissioner of Deeds
My Commission Expires August 9, 2005

State of }
County of } SS.:

Date _____, 2003 Gongyi Zhang L.S.

State of }
County of } SS.:

On _____, 2003, before me, _____, Notary Public,
personally appeared _____, personally known to me on the basis of satisfactory evidence to be
the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same
in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon
behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

State of }
County of } SS.:

ASSIGNMENT

WHEREAS, WE, Ambrose Cheung, Adar Manna and Gongyi Zhang, ASSIGNORS, citizens of the United States, residing at 3 Webster Terrace, Hanover, New Hampshire 03755, 24 Parkhurst Street, Lebanon, New Hampshire 03766 and 3635 Hibiscus Way, Denver, Colorado 80273, are the inventors of the invention in Compositions and Methods for Affecting Virulence Determinants in Bacteria for which we have executed an application for a Patent of the United States

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and WHEREAS, Trustees of Dartmouth College, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date _____, 2003 _____ L.S.
Ambrose Cheung

State of _____)
County of _____) SS.:

On _____, 2003, before me, _____, Notary Public, personally appeared _____, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

State of _____)
County of _____) SS.:

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FEB 12 2003
TECH CENTER 1600/2900

Date _____, 2003 _____ L.S.

State of _____

Adar Manna

County of _____

} SS.:

On _____, 2003, before me, _____, Notary Public, personally appeared _____, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

State of Colorado

County of Denver

} SS.:

Date February 7, 2003

Gongyi Zhang

L.S.

State of Colorado

County of Denver

} SS.:

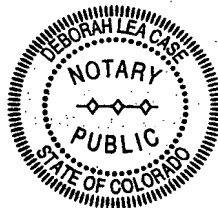
On February 7, 2003, before me, Deborah Case, Notary Public, personally appeared Gongyi Zhang, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

State of _____

County of _____

} SS.:



MY COMMISSION EXPIRES:
May 3, 2003